

WU - simplify

$$\frac{2x^3 - x^2}{x^2(2x-1)}$$

→ $x^2(2x-1)$

$$\frac{x^2(2x-1)}{x^2(2x-1)} = 1$$

$\frac{4}{4} = 1$

p 577
#6-10



Do this
when you're finished,
and then I'll
ZAP you.

⑧

$$\frac{\cancel{x^2} + 2\cancel{x} - 24}{\cancel{x^2} + 7\cancel{x} + 6} \rightarrow \frac{(\cancel{x+6})(x-4)}{(\cancel{x+6})(x+1)} = \frac{x-4}{x+1}$$

⑥

$$\frac{4x^2}{20x^2 - 12x} = \frac{\cancel{4}x^2}{\cancel{4}\cancel{x}(5x - 3)}$$

\

$$= \boxed{\frac{x}{5x - 3}}$$

$$\frac{\cancel{4} \cdot \cancel{x} \cdot x}{\cancel{4}\cancel{x}(5x - 3)}$$



$$\textcircled{7} \quad \frac{x^2 - x - 20}{x^2 + 2x - 15} = \frac{(x+4)(x-5)}{(x-3)(x+5)}$$

= simplified form

10.

$$\frac{x^2 + 4x + 4}{x^2 - 5x + 4} = \frac{(x+2)(x+2)}{(x-4)(x-1)}$$


= can't be
simplified

Multiplying Rational Expressions

$$\frac{a}{b} \cdot \frac{c}{d} = \frac{a \cdot c}{b \cdot d}$$

Dividing Rational Expressions

$$\frac{a}{b} \div \left(\frac{c}{d} \right) = \frac{a}{b} \cdot \frac{d}{c} = \frac{ad}{bc}$$

 $\times \text{reciprocal}$

Ex]

$$\frac{8x^3y^1}{2xy^2} \cdot \frac{7x^4y^3}{4y}$$

$$= \frac{56x^7y^4}{8xy^3}$$

↓

$$= \boxed{7x^6y}$$

Ex 1

$$\left(\frac{8x^3y}{2xy^2} \cdot \frac{7x^4y^3}{4y} \right)$$

You can...
simplify
fractions
first

$$\frac{4x^2}{y} \cdot \frac{7x^4y^2}{4y} = \boxed{7x^6y}$$

$$\frac{3x - 3x^2}{x^2 + 4x - 5} \cdot \frac{x^2 + x - 20}{3x}$$

① Factor everything you can

$$\frac{\cancel{3x} (1-x) \cdot \cancel{(x+5)} (x-4)}{(x-1) \cancel{(x+5)} \cdot \cancel{3x}}$$

$$\begin{array}{l} 1-x \\ (-x+1) \\ -1(x-1) \end{array}$$

$$\frac{-1 \cancel{(x+5)} (x-4)}{\cancel{(x+5)}} = -x+4$$